

Prairie Apples

Brief Background/History

New Developments

- Dessert
- Cider
- Rootstocks
- Testing further North in zone 2a
- New propagation techniques
- New cultural techniques

Apple Breeding



APPLES



Prairie Sensation



Prairie Sensation



Prairie Sensation



Misty Rose



Festive Treat



Requirements

- Marketing skills
- Business Management skills
- Grower Management skills
 - Propagation skills
 - Physically fit
- Money and Patience
- Good Orchard Site
- Basic Information and a keen interest

New Developments

Dessert Apples

Autumn Delight



CIDER

Peter Reimer



Data on SK Apples -24

Table 1. Juice quality traits of SK grown apples. Fruit grown on the U of SK orchards in Saskatoon Saskatchewan. Fruit from 2011, 2012 and 2013 crop years was tested

	Cultivar	Juice Yield %w/w	%Tannin(Lowenthal Permanganate)	MCP Tannin	pH	Titrateable Acidity (%MA)	Soluble Solids (brix)
Recent U of S Introductions	Anna Gold	55.1	0.95	45.91	3.42	0.50	12.8
	Autumn Delight	78.9	1.15	27.97	3.31	0.47	12.8
	Festive Treat	53.6	1.73	25.805	3.25	0.78	13.5
	Granny Annie	80.1	1.36	75.67	3.285	0.72	12.8
	Misty Rose	62.0	0.84	37.085	3.38	0.63	14.6
	Patience	77.5	1.41	35.21	3.235	0.66	13.0
	Prairie Sensation	65.5	0.81	26.11	3.455	0.66	13.2
	Trail Red	65.6	1.34	44.835	3.715	0.59	16.5
	Sparkle	65.0	1.31	45.595	3.5	0.37	12.8
	Prairie Rose	71.1	0.83	11.5	3.13	0.79	13.6
Conventional Hardy Apple Cultivars	Norkent	66.0	1.13	37.23	3.765	0.45	14.1
	Minn447	78.4	0.65	12.11	3.27	0.63	13.5
	Kerr	75.4	1.39	9.53	3.21	0.95	16.5
	Goodland	53.8	0.95	28.68	3.4	0.62	14.1
	Carlos Queen	58.5	0.83	19.55	3.34	0.68	13.6
Unreleased apple Selections	Brightness	77.3	1.28	35.77	3.3	0.89	16.9
	Prolific	75.2	1.80	73.49	3.595	0.68	15.5
	R52T22	76.8	1.00	16.8	3.61	0.41	13.8
	R64T11	58.2	0.77	29.49	3.5	0.46	14.2
	R76T31	59.7	1.19	45.935	3.37	0.56	13.2
	SX08-15	-	1.17	15.22	4.22	<0.21	16.6
	SX08-16	-	1.03	-	3.48	0.57	15.8
	SX81-48	66.4	0.70	18.19	3.72	0.46	16.6
	SX81-69	62.1	0.65	45.065	3.4	0.76	17.9

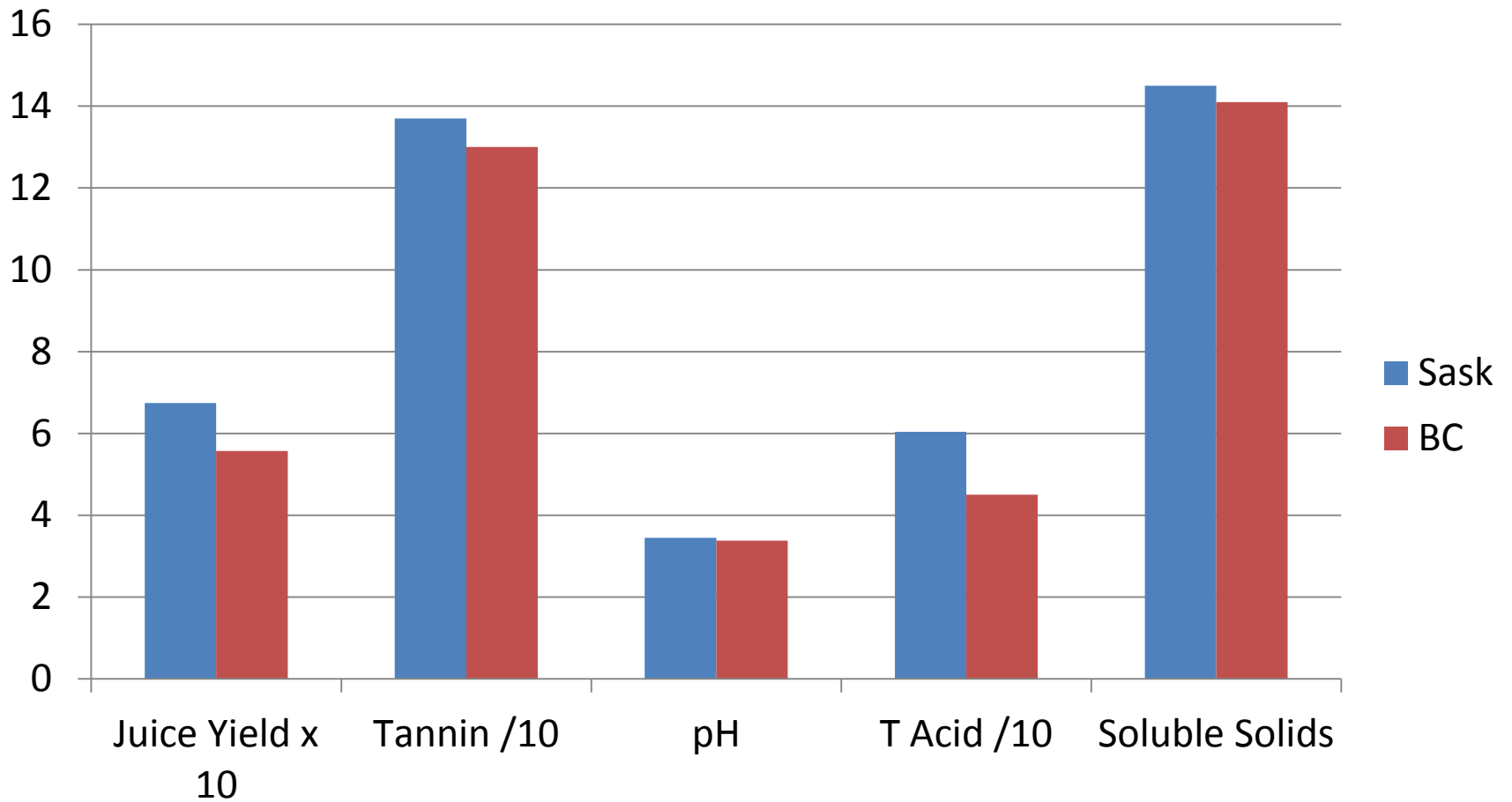
Data on Famous Cider Apples

-grown in BC

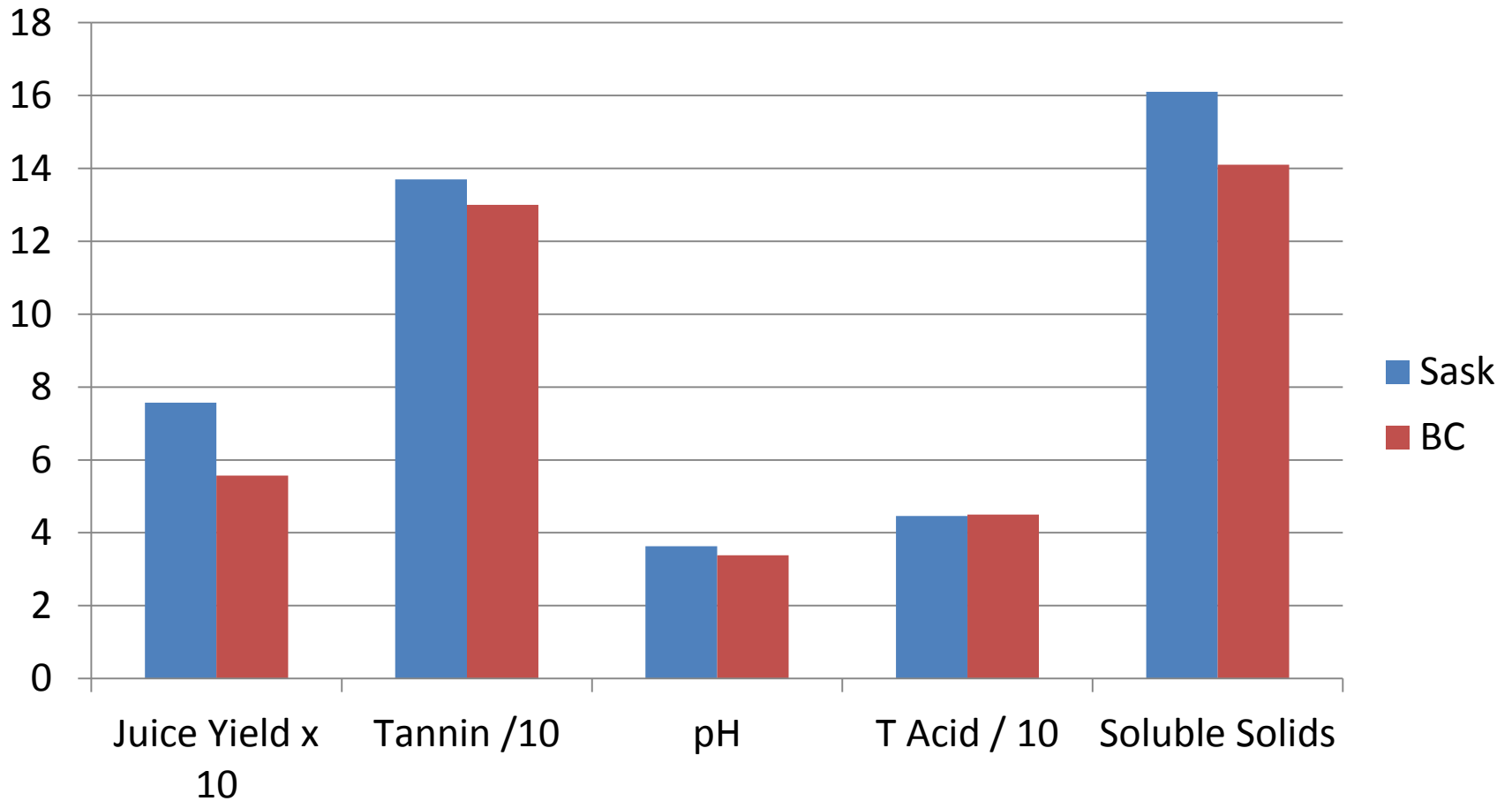
Table 1. Acid, Sugar, and Tannin contents of apples grown in BC in 2011 for use in fermented cider

Cultivar	Collection Location	Juice Yld % w/w	% Tannin (Lowenthal- Permanganate)	MCP Tannin (mg/L)	pH	TA (%Malic acid)	Soluble Solids (Brix)
Blauacher	Keremeos	37.2	1.1	32.3	3.1	0.68	14.7
Brown's Apple	Summerland	65.4	2.0	33.8	3.12	0.69	15.1
Dabinett	Summerland	75.1	0.8	31.1	3.26	0.47	15.3
Dabinett	Keremeos	71.2	1.4	47.2	3.45	0.35	13.1
Kerrmerian	Summerland	73.4	0.9	58.9	3.15	0.64	14.8
Kingston Black	Summerland	-	0.8	75.7	3.29	0.49	15.5
Michelin	Summerland	41.7	1.3	150.2	3.71	<0.21	13.2
Michelin	Keremeos	38.9	0.9	60.63	3.69	0.25	13.4
Saurgrau	Keremeos	54.0	1.4	83.8	3.33	0.5	13.3
Yarlinton Mill	Summerland	43.3	2.0	271.7	3.7	<0.21	12.9
Average		55.7	1.3	84.5	3.38	0.45	14.1

Averages



Average of Best Ten



Rootstocks

- Ottawa #3 –fire blight susceptible and marginal winter hardiness
- New rootstock selections –great pedigree and superior characteristics –yield efficiency
- PBR/Second Test planting
- V3 rootstock –fire blight resistant but ? hardy
- Geneva rootstocks –Gen 41
- New dwarfing genetics

Testing in Zone 2a

"Volcano Mountain,iceland" by Hordur Vilhjalmsson



Propagation Techniques



New Cultural Techniques

- trellis
- planting method and time



Half Asian Pears



Dwarf sour cherries



Dwarf sour cherries



Crimson Passion



SK Carmine Jewel



Perfection-Superb



Ptitsin #3



Ptitsin #5



Pembina



Patterson Pride



Red Bounty



Renovated Saskatoon row



Blind growth and flower buds



Viable and non-viable stems



hazelnuts



Hazelnuts on berry harvester

